

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 03/00526

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B23Q3/00 B23B29/06 B23B29/18 B23B29/26 B23B29/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B23Q B23B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 158 (M-393), 3 July 1985 (1985-07-03) -& JP 60 034201 A (TAKAYUKI NOMURA), 21 February 1985 (1985-02-21) abstract -----	1-11
A	US 3 893 356 A (ATZBERGER FRANK) 8 July 1975 (1975-07-08) the whole document -----	1-11
A	GB 2 080 174 A (GARDNER BRIAN) 3 February 1982 (1982-02-03) the whole document -----	1-11
A	EP 1 074 336 A (HEYLIGENSTAEDT GMBH & CO KG I) 7 February 2001 (2001-02-07) the whole document ----- -/-	1-11

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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- "O" document referring to an oral disclosure, use, exhibition or other means
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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search 16 September 2003	Date of mailing of the international search report 02.01.04
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Müller, A

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 457 065 A (COATE WILLIAM C) 3 July 1984 (1984-07-03) the whole document -----	1-11

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No

PCT/CH 03/00526

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 60034201	A	21-02-1985	NONE		
US 3893356	A	08-07-1975	CA	1013596 A1	12-07-1977
GB 2080174	A	03-02-1982	NONE		
EP 1074336	A	07-02-2001	DE	19937238 A1	15-02-2001
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			CA	1141573 A1	22-02-1983
			DE	3067572 D1	24-05-1984
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			US	4497410 A	05-02-1985